Author index

Álvarez-Ossorio, M.T., 1005
Adams, P.R., 1963
Agustí, S., 2357
Alldredge, A.L., 393
Amblard, C., 901
Amft, J., 2333
Amundsen, P.-A., 243
Anadón, R., 957
Anderson, D.M., 1743
Archambault, P., 671
Arias, A.M., 585
Arnautov, G.N., 85
Ashjian, C., 1267
Avery, A., 1357

Balode, M., 2251
Båmstedt, U., 805
Ban, S., 1073
Bang, B., 671
Barans, C., 2333
Barquero, S., 957
Barry, M.J., 1219
Bauer, F., 1651
Bautista, B., 1087
Béchemin, C., 2251
Benndorf, J., 1797
Bergeron, J.P., 1205
Berman, T., 709, 1321
Biegala, I.C., 1205
Blanco, J.M., 887, 1087
Blanton, J., 2333
Bochdansky, A.B., 2179
Bode, A., 957, 1005
Bøhn, T., 243
Bolton, T.F., 2153
Booth, B., 1267
Borbély, G., 1989
Bouman, H.A., 539
Bourget, E., 671
Brewer, M.C., 973
Bricaud, A., 603
Buecher, E., 631
Bundy, M.H., 2129
Burns, C.W., 1501
Buskey, E.J., 1553
Butow, B., 355
Buttino, I., 2369

Cabal, J.A., 957
Cappenberg, T.E., 1435
Caraco, N.F., 1567
Carpenter, S.R., 1889
Carr, M.-E., 491
Cartes, J.E., 2273
Castro-Longoria, E., 1119
Caswell, H., 1837
Caturao, R., 2031
Cavaletto, J.F., 1581, 2029
Charpin, M.F., 901
Chipps, S.R., 2401
Choi, J.K., 923
Chorus, I., 1927
Christou, E.D., 1313
Clark, C.W., 1403
Cole, J.J., 1567
Colijn, F., 517
Comín, F.A., 2089, 2109
Conde-Porcuna, J.M., 605, 1637
Costello, J.H., 383
Cottingham, K.L., 1889
Coyle, K.O., 1189
Cravero, W., 1423
Creus, A., 2413
Cueff, A., 407
Cuesta, J.A., 61
Cullen, J.J., 219
Cushing, D.H., 1527

Daly, K., 1267
Dam, H.G., 1971
Dandonneau, Y., 603
Daro, M.H., 2031
Dauvin, J.-C., 1145
Declerck, S., 605
Deibel, D., 2179
Devaux, J., 901
Dickey-Collas, M., 315, 1915
Dodson, S.I., 973
Drake, P., 585
Du Réau, G., 1599

Ellegaard, M., 1743

Falkowski, P.G., 603
Feinberg, L.R., 1971
Felip, M., 2413
Fernández, E., 957
Ferrari, G.M., 757, 1699
Fiala, M., 1341
Ford, M.D., 383
Fortier, L., 1267
Foster, C.A., 767
Fransz, H.G., 257
Frears, S.L., 727
Froneman, P.W., 653
Frontier, S., 847
Fujii, K., 1663
Fundel, B., 1449

Gómez-Gutiérrez, J., 1679, 2009
Gardner, C., 1169
Gardner, W.S., 1581, 2029
Gasser, B., 631
Gieskes, W.W.C., 517
Gironés, R., 2413
Glibert, P.M., 1767
Godeaux, J.E.A., 1757
Goericke, R., 2223
González, N., 1005, 2413
Gonzalez, P., 1423
Gonzalez, S.R., 257
Gopalakrishnan, T.C., 343
Gosselin, M., 1267
Gove, D., 2165
Gowen, R.J., 315
Gradinger, R., 871
Gray, C.A., 1539
Grigorszky, I., 1989
Gross, T.F., 2129
Grzymski, J., 1241
Guambe, I., 2165
Guerreiro, J., 2165
Guerrero, F., 305, 887, 1087
Guglielmo, L., 2369
Guillot, P., 1599

Hadas, O., 355, 1321, 1435
Haddock, S.H.D., 393
Han, B.-P., 1463
Haridas, P., 343
Harris, R.P., 407
Hatfield, E.A., 2179
Havenhand, J.N., 2153
Hayashi, H., 1259
Hays, G.C., 135, 727, 1963
Head, R.N., 407
Heiskanen, A.-S., 2053
Henderson, E.W., 787
Hirche, H.-J., 1267
Hirst, A.G., 1119
Hopcroft, R.R., 539, 557
Horwood, J.W., 1527
Hülsmann, S., 1797
Hyatt, C., 1553

Ianora, A., 407, 2369
Ietswaart, T., 1997
Ignatiades, L., 985
Ikävalko, J., 871
Imai, I., 1417
Ingram, G.R., 671
Irigoien, X., 997
Irwin, B.D., 187
Ishii, H., 805
Iwakuma, T., 1663

Jeandel, C., 1341, 1599
Jiménez-Gómez, F., 1087
Jordan, M.B., 943
Jovine, R.V.M., 1241

Kamykowski, D., 1781
Karentz, D., 145
Karlson, B., 2207
Kelley, D.E., 219

Kesaulia, I., 2031
Kiefer, D.A., 603, 1489
Kiørboe, T., 1615
Klein Breteler, W.C.M., 257
Kleppel, G.S., 315, 2017
Klos, E., 383
Knott, D., 2333
Kobari, T., 1073
Kopczynska, E.E., 1341
Kosi, G., 691, 1421
Kovalev, A.V., 1377
Kršinić, F., 1033
Kulis, D.M., 1743
Kühn, S.F., 443
Kumar, R., 271
Kyewalyanga, M.N., 17

Laabir, M., 407
Lagadeuc, Y., 371, 1387
Legendre, L., 603, 1267
Legeżyńska, J., 1233
Lepretre, A., 847
Lewis, M.R., 219
Liebig, J.R., 1581, 2029
Lindenschmidt, K.-E., 1927
Lizon, F., 371
Loukos, H., 831
Lutz, V.A., 17

Maass, H., 187
Macháček, J., 1645
Macquart-Moulin, C., 817
Madhupratap, M., 343
Máthé, C., 1989
Maestrini, S.Y., 2251
Maier, G., 1449
Maison, J., 1599
Malinsky-Rushansky, N., 1435
Manabe, T., 1417
Markager, S., 1813
Matthäus, W., 1099
Maurin, N., 901
Mayzaud, P., 1953
Mazzocchi, M.G., 331
McCullough, G., 315
McManus, G.B., 767
Mehner, T., 1797
Merrell, J.R., 289
M'harzi, A., 2031
Michaud, J., 1267
Miller, C.A., 1767
Milligan, E.J., 1781
Milligan, S.P., 1915
Miralto, A., 2369
Moline, M.M.A., 1241
Monteiro, S., 2165
Montresor, M., 2291
Morel, A., 603
Morello, T.A., 571
Moreno-Amich, R., 2089, 2109
Motos, L., 1861
Müller, Z., 1989
Munk, P., 2313
Mura, M.P., 2357

Nagai, S., 1417
Nagy, S., 1989
Nair, K.K.C., 343
Nakamura, Y., 1711, 2213
Nash, R.D.M., 1915
Nausch, G., 1099
Neubert, M.G., 1837
Nezlin, N.P., 85
Nicklisch, A., 105
Nielsen, T.G., 2313

O'Keefe, T.C., 973
O'Neil, J.M., 43
Oriol, L., 1341

Padmavati, G., 343
Paffenhöfer, G.-A., 121, 331
Pakhomov, E.A., 653
Panampunnayil, S.U., 619
Papathanassiou, E., 847
Parslow, J., 603
Passow, U., 393
Paula, J., 2165
Peeters, J.C.H., 517
Peperzak, L., 517
Pesant, S., 1267
Pina, S., 2413
Pinkas, R., 1435
Pinto, I., 2165
Piontkovski, S.A., 1377
Platt, T., 17, 187
Plewa, M., 1797
Podoor, N., 2031
Pollingher, U., 1321
Pond, D.W., 169, 407
Poulet, S.A., 407
Proctor, R., 943
Purina, I., 2251

Quartley, C.P., 135
Quiñones, R.A., 887
Quintana, R., 1169
Quintana, X.D., 2089, 2109

Rae, R., 1293
Rao, T.R., 271
Razouls, S., 1599
Reed, R.E., 1781
Repka, S., 2199
Richardson, A.J., 2379
Richardson, T.L., 219
Ringelberg, J., 1847
Robinson, C.J., 1679, 2009
Rodríguez, A., 585
Rodríguez, J., 887, 1087
Rodríguez, V., 305, 1087
Roff, J.C., 539, 557, 671
Roijackers, R., 1997
Rothschild, B.J., 1721

Sahlsten, E., 2207
Sakshaug, E., 603
Sargent, J.R., 169
Sarno, D., 2291
Sathyendranath, S., 17, 187
Sato, M.S., 1259
Schallenberg, M., 1501
Schanz, F., 1357
Schmid, H., 1449, 1651
Schofield, O., 1241
Schogt, N., 257
Schubart, C.D., 61
Sedmak, B., 691, 1421
Seuront, L., 1387
Shim, M.B., 923
Shiney, P., 343
Shteinman, B., 709
Shushkina, E.A., 85
Siefert, D.L.W., 1061
Siokou-Frangou, I., 847
Smayda, T.J., 145
Smith, N.P., 1
Smith, R.E.H., 1267
Smith, S., 1267
Smith, T.E., 1567
Smith, W.O., Jr, 1267
Sommaruga, R., 2413
Sommer, U., 1853
Søndergaard, M., 179
Sorbe, J.C., 2273
Sorokin, P.Yu., 1015
Sorokin, Yu.I., 1015
Spaink, P.A., 1997
St. Amand, A.L., 1889
Steele, J.H., 787, 1403
Stelzer, C.-P., 1131
Stensdotter-Blomberg, U., 423
Stephens, J.A., 943
Stergiou, K.I., 1313
Sterner, R.W., 471
Stevenson, R.J., 1567
Stich, H.-B., 1449, 1651
Stoecker, D.K., 289
Stoner, A.W., 1
Stramski, D., 1489
Straškraba, M., 1463
Strickler, J.R., 2129
Strom, S.L., 571, 831
Stuart, V., 17, 187
Sukenik, A., 355

Tackx, M., 2031
Takahashi, M., 603
Tallberg, P., 2053
Tang, K.W., 1971
Tartarotti, B., 1423
Tassan, S., 757, 1699
Taylor, A.H., 943

Tel-Or, E., 355
Thiébaut, E., 1145
Tirelli, V., 1953
Titelman, J., 1615
Tóth, A., 1989

Uriarte, A., 1861

Vanderploeg, H.A., 1581, 2029, 2129
van der Vlies, M., 2199
Van Gool, E., 1847
Varela, M., 957
Verheye, H.M., 2379
Vetion, G., 1341
Vijverberg, J., 2199
Vincent, W.F., 1293
Vinogradov, M.E., 85
Vrede, T., 455

Walne, A.W., 135, 1963
Walsby, A.E., 1357
Walz, N., 2071
Wang, Z., 1145
Wasmund, N., 1099
Webb, P.I., 727
Welker, M., 2071
Welschmeyer, N.A., 2223
Wenner, E., 2333
Węsławski, J.M., 1233
Wickham, S.A., 739
Worischka, S., 1797
Worm, J., 179
Wynne, D., 355
Wysor, B., 1553

Xie, P., 1663

Yacobi, Y.Z., 1321
Yoon, W.D., 923

Zagami, G., 2369
Zagarese, H.E., 1423
Zakuskina, O.Yu., 1015
Zingone, A., 2291
Zohary, T., 1321

Subject index

Acartia bifilosa
clarification of species, varietal forms 1119
developmental stages, Yellow Sea, Korea 923
Acartia clausi
gut pigment destruction, ingestion, feeding history 1953
Acartia tonsa
nitrogen excretion, ammonium, urea 1767
river-dominated estuary, egg production, triacylglycerol, Gulf of Mexico 767
Acartiidae
copepods, resting eggs, sediments, Alboran Sea, Spain 305
Adriatic Sea
South Adriatic Pit, protozoans, microcopepods, vertical distribution 1033
Aegean Sea
Mediterranean Sea, oligotrophic waters 985
Alboran Sea
Spain, copepods, Acartiidae, resting eggs, sediments 305
Aleutian Islands
Bering Sea, *Neocalanus*, vertical distribution 1189
Algae
algal biomass, high-performance liquid chromatography (HPLC), lakes, Germany 1651
protozoa, selection, grazing, behavior, model 831
Alps
Pyrenees, plankton, virus-like particles (VLP), mountain lakes 2413
Anabaena spiroides
Daphnia magna, *Keratella cochlearis* 1989
Anchovy eggs
ichthyoplankton, sampling errors, systematic central sampling, Bay of Biscay 1861
Anisops
Daphnia longicephala, Notonectid, endosulfan, crest 1219
Antarctic Peninsula
phototrophic species, Cryptophyceae, frequency of dividing cells (FDC), temperature 2357
Antarctica
Kerguelen Islands, phytoplankton biomass 1341
Aphanizomenon ovalisporum
bloom development, potential toxicity, warm lake, standing stock, Lake Kinneret, Israel 1321
Appendicularia
Fritillaria, *Oikopleura*, growth rates, tropical waters, Jamaica 539
Oikopleura vanhoeffeni, chlorophyll *a*, gut passage time 2179
Aquatic particles
light absorption, measurement, transmittance-reflectance method, glass-fibre filters 1699
Arabian Sea
phytoplankton, functional geometry 1853
vertical distribution, mesozooplankton, copepods 343
Arctic
zooplankton mortality, freshwater discharge, fjords 1233
Ascomorpha
Ceratium, feeding behaviour, macrophage 1131
Aspartate transcarbamylase
Calanus helgolandicus, zooplankton productivity, enzyme activity 1205
Aurelia aurita
scyphozoa, jellyfish, food regulation, population dynamics, growth, Norway 805
Aureoumbra lagunensis
brown tide bloom, hypersalinity, Laguna Madre, Texas 1553
Australia
diel vertical migration, larval fishes, unstratified coastal waters 1539
Pseudocarcinus gigas, zoea, megalopa 1169
Axenic culture
Coscinodiscus wailesii Gran, centric diatom, micropipetting, vegetative cell 1417
Bacteria
eutrophic lake, transparent particles, colonization 179
heterotrophic, marine light absorption 1489
kairomones, *Daphnia*, origin of fish kairomone 1847
Rhodomonas, *Daphnia*, elemental composition, growth rate 455
Bahamas
Strombus gigas, *Strombus costatus*, larval transport, across-shelf, wind stress 1
Baja California
Mexico, *Pleuroncodes planipes*, bloom 2009
Mexico, vertical migration, euphausiids, shelf-break, hydroacoustic 1679
Baltic Sea
Gulf of Riga, phytoplankton, nutrient enrichment, growth rates, summer 2251
phytoplankton sedimentation, primary production, vertical organic flux, Baltic Sea 2053
spring bloom, phytoplankton 1099
Bay of Biscay
ichthyoplankton, anchovy eggs, sampling errors, systematic central sampling 1861
Bay of Cádiz
Spain, decapod larvae, abundance patterns, hatching rhythms, larval exportation 585
Belgian coastal zone
zooplankton, phytoplankton, winter distribution 2031

Bering Sea
Pseudocalanus, *Metridia*, Stage I and II nauplii 1061
Berlin
Lake Tegel, phytoplankton, water column mixing, diversity, similarity 1927
Black Sea
zooplankton biomass, gelatinous plankton, eutrophication, long-term changes 1377
Bloom
brown tide, *Aureoumbra lagunensis*, hypersalinity, Laguna Madre, Texas 1553
red-crab *Pleuroncodes planipes*, Baja California, Mexico 2009
spring, phytoplankton, Baltic Sea 1099
Boreomysis arctica
population structure, feeding ecology, Mediterranean 2273
Bottle experiments
nutrient limitation, sea water 1527
Calanus
zooplankton abundance, water transport, North Atlantic Oscillation (NAO), North Sea, Gulf Stream 943
Calanus helgolandicus
aspartate transcarbamylase, zooplankton productivity, enzyme activity 1205
reproduction, seasonal pattern, western English Channel, UK 407
Calanus simillimus
egg production, hatching success, Straits of Magellan 2369
California
Santa Barbara Channel, marine snow, dinoflagellates, *Gonyaulax*, TEP, aggregates, USA 393
Carbon cycling
phytoplankton, Northeast Water Polynya 1267
Carbon pathways
nutrient supply, mesozooplankton, grazing, coastal upwelling 491
Ceratium
Ascomorpha, feeding behaviour, macrophage 1131
bloom, zooplankton community, summer decline of *Daphnia* density, *Chaoborous* larvae, fishless pond, Japan 1663
Chlorophyceae
cyanobacteria, diatoms, growth rates, light absorption, natural light fluctuations 105
Chlorophyll (Chl)
zooplankton, rotifers, residence time, riverine lake, plug flow tubular reactor, Neuendorfer See, Germany 2071
Chlorophyll *a* (Chl *a*)
appendicularians, *Oikopleura vanhoeffeni*, gut passage time 2179
copepods, growth, egg production, food, temperature 2379
phytoplankton, growth rates, primary production, seasonal variations, Sargasso Sea 2223
zooplankton, phytoplankton, Inhaca Island, Mozambique 2165
Ciliates
autotrophic picoplankton, heterotrophic picoplankton, grazing, Lake Kinneret, Israel 1435
dinoflagellates, protozoa, growth, yield 571
Heliozoa, acidification, enclosure experiments, food limitation, predation pressure, Sweden 423
Cladocerans
abundance, Saronikos Gulf (Aegean Sea) 1313
Clausocalanus furcatus
feeding, reproduction, development 331
Coastal sea
phytoplankton, primary production values, incubation times 371
Cod abundance
zooplankton, herring abundance, year class strengths, North Sea 1721
Continuous Plankton Recorder
plankton, abundance 1963
Copepod size-fractions
phytoplankton, spring bloom, ingestion rates, fronts, NW Spain 957
Copepods
Acartia bifilosa, clarification of species, varietal forms 1119
Acartia bifilosa, developmental stages, Yellow Sea, Korea 923
Acartia clausi, gut pigment destruction, ingestion, feeding history 1953
Acartia tonsa, nitrogen excretion, ammonium, urea 1767
Acartia tonsa, river-dominated estuary, egg production, triacylglycerol, Gulf of Mexico 767
Acartiidae, resting eggs, sediments, Alboran Sea, Spain 305
Calanus helgolandicus, reproduction, seasonal pattern, western English Channel, UK 407
Calanus simillimus, egg production, hatching success, Straits of Magellan 2369
chlorophyll *a*, growth, egg production, food, temperature 2379
Clausocalanus furcatus, feeding, reproduction, development 331
Cyclops vicinus, *Thermocyclops crassus*, diapause, life cycle, abiotic factors, Japan 1073
diel vertical migration, pelagic ecosystems 787
Eurytemora affinis, protozoan microplankton, fluorescently-labeled prey, grazing, nauplii 289
fish larvae, predatory impact, North Sea 2313
fucoxanthin, pigments, gut passage 2017
gut fluorescence, gut clearance rate constant 997

Limnocalanus macrurus, lipid dynamics, Lake Michigan 1581
marine, moulting rates, incubation experiments 257
marine, population recruitment, egg production rate, hatching success, egg sinking 1971
Mesocyclops thermocyclopoides, cyclopoid copepod, freshwater, post-embryonic development, food type 271
Metridia, *Pseudocalanus*, Stage I and II nauplii, Bering Sea 1061
pelagic harpacticoid copepods, *Macrosetella gracilis*, *Trichodesmium* tropodynamics 43
phytoplankton abundance, Irish Sea 315
picoplankton, *Ceriodaphnia*, microbial trophodynamics, ultra-oligotrophic lake, Lake Wakatipu, New Zealand 1501
prey detection, inert particles, swimming behavior, numerical model 2129
seasonal abundance, grazing, Kerguelen Islands, Southern Ocean 1599
vertical distribution, mesozooplankton, Arabian Sea 343

***Coscinodiscus wailesii* Gran**
axenic culture, centric diatom, micropipetting, vegetative cell 1417

Crustaceans
Eurydice truncate, diel vertical migration, gut repletion, Mediterranean Sea, coast of France 817
Indoerythrops typicus gen. nov., sp. nov., *Pleurerythrops inscita*, descriptions, Indian waters 619

Cryptophyceae
phototrophic species, frequency of dividing cells (FDC), temperature, Antarctic Peninsula 2357

Cyanobacteria
diatoms, Chlorophyceae, growth rates, light absorption, natural light fluctuations 105
microcystin, phytoplankton diversity, toxic algal blooms, growth regulation 691
waterblooms, gas vacuoles, buoyancy, Lake Zürich, Switzerland 1357

Cyclops
Daphnia, ciliate, microbial web 739
Cyclops vicinus, *Thermocyclops crassus*, diapause, life cycle, abiotic factors, Japan 1073

Daphnia
Cyclops, ciliate, microbial web 739
detritus, *Oscillatoria limnetica*, food quality 2199
kairomones, bacteria, origin of fish kairomone 1847
Keratella, chemical interference 1637
low food quality, demographic effects, lake 471
midsummer decline, age-0 fish, trophic interactions, bioenergetics, life history parameters 1797
phaeopigments, grazing, spring bloom, Lake Constance 1449
phytoplankton fluctuation, filtering setae 1645
Rhodomonas, bacteria, elemental composition, growth rate 455
swimming behavior, bluegill, prey selection, predation risk 973

Daphnia longicephala
Anisops, Notonectid, endosulfan, crest 1219

Daphnia magna
microzooplankton, *Keratella cochlearis*, *Anabaena spiroides* 1989

Decapod larvae
abundance patterns, hatching rhythms, larval exportation, Bay of Cádiz, Spain 585

Detritus
Oscillatoria limnetica, *Daphnia*, food quality 2199

Diatoms
cyanobacteria, Chlorophyceae, growth rates, light absorption, natural light fluctuations 105
Phaeocystis, spring bloom, Dutch coastal zone, North Sea 517
Rhizosolenia, vertical migration, nutrient cycling, open ocean 219

Diel vertical migration
dinoflagellate, geotaxis, phototaxis 1781
Eurydice truncate, gut repletion, Mediterranean Sea, coast of France 817
larval fishes, unstratified coastal waters, Australia 1539
zooplankton, modeling patterns 1463

Dinoflagellate
ciliates, protozoa, growth, yield 571
diel vertical migration, geotaxis, phototaxis 1781
Gymnodinium catenatum, *Gymnodinium nolleri*, encystment, excystment, HPLC, PSP, temperature 1743
marine snow, Santa Barbara Channel, *Gonyaulax*, TEP, aggregates, California, USA 393
Noctiluca scintillans, heterotrophic, feeding, prey selection, prey encounter 1615
resting cysts, sediment traps, Mediterranean Sea 2291
temperature, fluorescence, photoinhibition, quantum yield 1241

Doliolids
Dolioletta gegenbauri, liquid composition, blooms, NE Atlantic 169
Doliolina, Thaliacea:Dolioletta, subgenera Doliolina and Dolioletta (s. gen. nov.), gonozooids 1757

Dutch coastal zone
Phaeocystis, diatoms, spring bloom, North Sea 517

Energy consumption
plankton, biomass spectra, allometric relations 887

English Channel
mesozooplankton, Seine Region of Freshwater Influence (ROFI) 1145
tidal coastal waters, spatio-temporal structure, variability, heterogeneity 1387
Euphausiids
vertical migration, shelf-break, hydroacoustic, Baja California, Mexico 1679
Eurydice truncate
diel vertical migration, gut repletion, Mediterranean Sea, coast of France 817
Eurytemora affinis
protozoan microplankton, fluorescently-labeled prey, grazing, nauplii 289
Eutrophic lake
bacteria, transparent particles, colonization 179
Fish invasion
zooplankton predation, prey selection, community structure, Pasvik River system, Norway 243
Fish larvae
copepods, predatory impact, North Sea 2313
Flagellates
Phaeocystis, diatoms, spring bloom, Dutch coastal zone, North Sea 517
Food chain models
plankton, closure terms, chaos 1837
France
photosynthate partitioning, phytoplankton, lakes, mixing, stratification, trophic status 901
Fritillaria
Appendicularia, *Oikopleura*, growth rates, tropical waters, Jamaica 539
Fucoxanthin
copepods, pigments, gut passage 2017
Gastropods
Strombus gigas, *Strombus costatus*, larval transport, across-shelf, wind stress, Bahamas 1
Germany
high-performance liquid chromatography (HPLC), algal biomass, lakes 1651
Neuendorfer See, zooplankton, rotifers, chlorophyll, residence time, riverine lake, plug flow tubular reactor 2071
Greece
Mediterranean Sea, zooplankton, assemblages, multivariate techniques, coastal 847
Greenland Sea
sea ice, new ice formation, abundance of organisms 871
Gulf of Mexico
Acartia tonsa, river-dominated estuary, egg production, triacylglycerol 767
Gulf of Riga
Baltic Sea, phytoplankton, nutrient enrichment, growth rates, summer 2251
Gulf Stream
Labrador Current, frontal zone, vertical distribution, zooplankton 85
North Sea, *Calanus*, zooplankton abundance, water transport, North Atlantic Oscillation (NAO) 943
Gut pigment destruction
Acartia clausi, ingestion, feeding history 1953
Gymnodinium catenatum
Gymnodinium nolleri, encystment, excystment, HPLC, PSP, temperature 1743
Gymnodinium nolleri
Gymnodinium catenatum, encystment, excystment, HPLC, PSP, temperature 1743
Heliozoa
ciliates, acidification, enclosure experiments, food limitation, predation pressure, Sweden 423
Herring abundance
zooplankton, cod abundance, year class strengths, North Sea 1721
Heterotrophic bacteria
light absorption, experimental determination 757
marine light absorption 1489
Heterotrophic dinoflagellate
Noctiluca, growth, grazing, laboratory cultures 1711
Noctiluca scintillans, biomass, production, Seto Inland Sea, Japan 2213
High-performance liquid chromatography (HPLC)
algal biomass, lakes, Germany 1651
Hudson River (New York)
phytoplankton. zebra mussel, cyanobacteria, diatoms 1567
Hydrotherms
microplankton, shallow regions, Western Pacific Ocean 1015
Ichthyoplankton
anchovy eggs, sampling errors, systematic central sampling, Bay of Biscay 1861
Indian waters
Indoerythrops typicus gen. nov., sp. nov., *Pleurerythrops inscita*, descriptions 619
***Indoerythrops typicus* gen. nov., sp. nov.**
Pleurerythrops inscita, descriptions, Indian waters 619
Inhaca Island
Mozambique, zooplankton, phytoplankton, chlorophyll *a* 2165
Irish Sea
copepods, phytoplankton abundance 315
Israel
Lake Kinneret, *Aphanizomenon ovalisporum*, bloom development, potential toxicity, warm lake, standing stock 1321
Lake Kinneret, ciliates, autotrophic picoplankton, heterotrophic picoplankton, grazing 1435
Lake Kinneret, phytoplankton, turbulence 709
Jamaica
Appendicularia, *Fritillaria*, *Oikopleura*, growth rates, tropical waters 539

Kingston Harbour, larvaceans, growth rate 557
Japan
Seto Inland Sea, *Noctiluca scintillans*, biomass, production 2213
Thermocyclops crassus, *Cyclops vicinus*, diapause, life cycle, abiotic factors 1073
zooplankton community, *Ceratium* bloom, summer decline of *Daphnia* density, *Chaoborous* larvae, fishless pond 1663
Jellyfish
scyphozoa, *Aurelia aurita*, food regulation, population dynamics, growth, Norway 805
Kairomones
Daphnia, bacteria, origin of fish kairomone 1847
Keratella cochlearis
macrozooplankton, *Daphnia magna*, *Anabaena spiroides* 1989
Kerguelen Islands
Antarctica, phytoplankton biomass 1341
Southern Ocean, copepods, seasonal abundance, grazing 1599
Kingston Harbour
Jamaica, larvaceans, growth rate 557
Korea
Yellow Sea, *Acartia bifilosa*, developmental stages 923
La Coruña
NW Spain, mesozooplankton, estimations of biomass 1005
Labrador Current
Gulf Stream, frontal zone, vertical distribution, zooplankton 85
Laguna Madre
Texas, *Aureoumbra lagunensis*, brown tide bloom, hypersalinity 1553
Lake Constance
phaeopigments, *Daphnia*, grazing, spring bloom 1449
Lake Kinneret
Israel, *Aphanizomenon ovalisporum*, bloom development, potential toxicity, warm lake, standing stock 1321
Israel, ciliates, autotrophic picoplankton, heterotrophic picoplankton, grazing 1435
Israel, phytoplankton, turbulence 709
Lake Michigan
Limnocalanus macrurus, lipid dynamics 1581
Lake Tegel
Berlin, phytoplankton, water column mixing, diversity, similarity 1927
Lake Wakatipu
New Zealand, picoplankton, copepods, *Ceriodaphnia*, microbial trophodynamics, ultra-oligotrophic lake 1501
Lake Zürich
Switzerland, cyanobacteria, waterblooms, gas vacuoles, buoyancy 1357
Larvaceans
Appendicularia, *Fritillaria*, *Oikopleura*, growth rates, tropical waters, Jamaica 539
growth rate, Kingston Harbour, Jamaica 557
Larvae
trochophore, physiological, viscosity, feeding 2153
Light absorption
aquatic particles, measurement, transmittance-reflectance method, glass-fibre filters 1699
heterotrophic bacteria, experimental determination 757
Limnocalanus macrurus
lipid dynamics, Lake Michigan 1581
Macrosetella gracilis
pelagic harpacticoid copepods, *Trichodesmium* tropodynamics 43
Macrozooplankton
microzooplankton, *Daphnia magna*, *Keratella cochlearis*, *Anabaena spiroides* 1989
Marine snow
dinoflagellates, Santa Barbara Channel, *Gonyaulax*, TEP, aggregates, California, USA 393
Mediterranean
Aegean Sea, oligotrophic waters 985
Boreomysis arctica, population structure, feeding ecology 2273
coast of France, *Eurydice truncate*, diel vertical migration, gut repletion 817
dinoflagellates, resting cysts, sediment traps 2291
Greece, zooplankton, assemblages, multivariate techniques, coastal 847
Pleurobrachia rhodopis, predatory impact 631
wetlands, disturbances, nitrogen phosphorus ratio, turnover rate, flux regulation 2089
wetlands, temporary ponds, community structure, multivariate analysis, flux regulation 2109
Medusa
behavior, swimming, foraging, orientation 383
Mesocyclops thermocyclopoides
cyclopoid copepod, freshwater, post-embryonic development, food type 271
Mesozooplankton
estimations of biomass, La Coruña, NW Spain 1005
nutrient supply, carbon pathways, grazing, coastal upwelling 491
Seine Region of Freshwater Influence (ROFI), English Channel 1145
vertical distribution, copepods, Arabian Sea 343
Metazooplankton
protozooplankton, feeding rates, prey 121
Metridia
Pseudocalanus, Stage I and II nauplii, Bering Sea 1061
Metridia lucens
zooplankton, carbon, nitrogen, biogeochemical, excretion, respiration, New Zealand 727

Mexico
Baja California, *Pleuroncodes planipes*, bloom 2009
Baja California, vertical migration, euphausiids, shelf-break, hydroacoustic 1679
Microalgae
Micromonas pusilla, picoplankton, vertical distribution, lytic virus, south-eastern Skagerrak, North Atlantic 2207
Microcopepods
protozoans, vertical distribution, Adriatic Sea, South Adriatic Pit 1033
Microcystin
cyanobacteria, phytoplankton diversity, toxic algal blooms, growth regulation 691
Micromonas pusilla
picoplankton, vertical distribution, lytic virus, south-eastern Skagerrak, North Atlantic 2207
Microphytoplankton
zooplankton assemblages, biogeographic zones, biomass, Prince Edward Islands, Southern Ocean 653
Microplankton
hydrotherms, shallow regions, Western Pacific Ocean 1015
Microzooplankton
macrozooplankton, *Daphnia magna*, *Keratella cochlearis*, *Anabaena spiroides* 1989
Mozambique
Inhaca Island, zooplankton, phytoplankton, chlorophyll *a* 2165
Mysis
feeding rate, evacuation rate 2401
Nanoplankton
picoplankton, tangential filtration, concentration 1087
Narragansett Bay
Rhode Island, USA, phytoplankton, temporal patterns, taxonomic structure 145
NE Atlantic
Dolioletta gegenbauri, liquid composition, blooms 169
Neocalanus
vertical distribution, Aleutian Islands, Bering Sea 1189
Neuendorfer See
Germany, zooplankton, rotifers, chlorophyll, residence time, riverine lake, plug flow tubular reactor 2071
New Zealand
Lake Wakatipu, picoplankton, copepods, *Ceriodaphnia*, microbial trophodynamics, ultra-oligotrophic lake 1501
Metridia lucens, zooplankton, carbon, nitrogen, biogeochemical, excretion, respiration 727
Noctiluca
growth, grazing, laboratory cultures 1711
heterotrophic, feeding, prey selection, prey encounter 1615
Noctiluca scintillans, biomass, production, Seto Inland Sea, Japan 2213
temperature, luminescent response 1259
North Atlantic
phytoplankton, physiological parameters, seasonal variations 17
south-eastern Skagerrak, *Micromonas pusilla*, picoplankton, vertical distribution, lytic virus 2207
zooplankton, sampling, Continuous Plankton Recorder (CPR), U-Tow 135
North Sea
copepods, fish larvae, predatory impact 2313
Gulf Stream, *Calanus*, zooplankton abundance, water transport, North Atlantic Oscillation (NAO) 943
zooplankton, cod abundance, herring abundance, year class strengths 1721
Northeast Water Polynya
phytoplankton, carbon cycling 1267
Norway
Pasvik River system, fish invasion, zooplankton predation, prey selection, community structure 243
scyphozoa, jellyfish, *Aurelia aurita*, food regulation, population dynamics, growth 805
Notonectid
Daphnia longicephala, *Anisops*, endosulfan, crest 1219
Nutrient enrichment
phytoplankton, nitrogen, phosphorus, lakes 1889
Nutrient limitation
bottle experiments, sea water 1527
Nutrient supply
carbon pathways, mesozooplankton, grazing, coastal upwelling 491
NW Spain
copepod size-fractions, phytoplankton, spring bloom, ingestion rates, fronts 957
La Coruña, mesozooplankton, estimations of biomass 1005
Oikopleura
Appendicularia, *Fritillaria*, growth rates, tropical waters, Jamaica 539
Oikopleura vanhoeffeni
chlorophyll *a*, gut passage time 2179
Oligotrophic waters
Aegean Sea, Mediterranean Sea 985
Oscillatoria limnetica
detritus, *Daphnia*, food quality 2199
Panama
Sesarma species, first zoeal stages, identification 61
Parasitoid nanoflagellate (PNF)
Pirsonia diadema, infection of *Coscinodiscus* spp., selective infection behaviour 443
Pasvik River system
Norway, fish invasion, zooplankton predation, prey selection, community structure 243
Penaeid shrimp
recruitment, wind, tidal currents, oceanography, South Carolina 2333

Peridinum
algal bloom, carbon limitation, fatty acids, lipid peroxidation, oxidative stress, temperature 355
Phaeocystis
diatoms, spring bloom, Dutch coastal zone, North Sea 517
Phaeopigments
Daphnia, grazing, spring bloom, Lake Constance 1449
Photosynthate partitioning
phytoplankton, lakes, mixing, stratification, trophic status, France 901
Photosynthesis
temperature, subarctic, models, cell size 1293
Phototrophic species
Cryptophyceae, frequency of dividing cells (FDC), temperature, Antarctic Peninsula 2357
Phytoplankton
abundance, copepods, Irish Sea 315
biomass, Kerguelen Islands, Antarctica 1341
chlorophyll *a*, growth rates, primary production, seasonal variations, Sargasso Sea 2223
coastal sea, primary production values, incubation times 371
copepod size-fractions, spring bloom, ingestion rates, fronts, NW Spain 957
dark uptake, ^{14}C-method, primary production, CO_2-concentration 1813
fluctuation, *Daphnia*, filtering setae 1645
functional geometry, Arabian Sea 1853
Northeast Water Polynya, carbon cycling 1267
nutrient enrichment, growth rates, summer, Gulf of Riga, Baltic Sea 2251
nutrient enrichment, nitrogen, phosphorus, lakes 1889
photosynthate partitioning, lakes, mixing, stratification, trophic status, France 901
physiological parameters, seasonal variations, North Atlantic 17
pigments, species composition, absorption spectra 187
sedimentation, primary production, vertical organic flux, Baltic Sea 2053
spring bloom, Baltic Sea 1099
temporal patterns, taxonomic structure, Narragansett Bay, Rhode Island, USA 145
turbulence, Lake Kinneret, Israel 709
water column mixing, diversity, similarity, Lake Tegel, Berlin 1927
zebra mussel, cyanobacteria, diatoms, Hudson River (New York) 1567
zooplankton, Belgian coastal zone, winter distribution 2031
zooplankton, chlorophyll *a*, Inhaca Island, Mozambique 2165
Picoplankton
autotrophic, heterotrophic, ciliates, grazing, Lake Kinneret, Israel 1435
copepods, *Ceriodaphnia*, microbial trophodynamics, ultra-oligotrophic lake, Lake Wakatipu, New Zealand 1501
Micromonas pusilla, vertical distribution, lytic virus, south-eastern Skagerrak, North Atlantic 2207
nanoplankton, tangential filtration, concentration 1087
Pirsonia diadema
parasitoid nanoflagellate (PNF), infection of *Coscinodiscus* spp., selective infection behaviour 443
Plankton
Continuous Plankton Recorder, abundance 1963
energy consumption, biomass spectra, allometric relations 887
food chain models, closure terms, chaos 1837
models, individual-based, population-based 1403
River Waal, River Rhine, channel 1997
sampler, high-speed, Gulf VII, PRO-NET, Guildline 1915
ultraviolet radiation, shallow lakes, water mixing 1423
virus-like particles (VLP), mountain lakes, Alps, Pyrenees 2413
Pleurerythrops inscita
Indoerythrops typicus gen. nov., sp. nov., descriptions, Indian waters 619
Pleurobrachia rhodopis
Mediterranean Sea, predatory impact 631
Pleuroncodes planipes
bloom, Baja California, Mexico 2009
Prince Edward Islands
Southern Ocean, microphytoplankton, zooplankton assemblages, biogeographic zones, biomass 653
Protozoa
algae, selection, grazing, behavior, model 831
ciliates, dinoflagellates, growth, yield 571
Protozoan microplankton
Eurytemora affinis, fluorescently-labeled prey, grazing, nauplii 289
Protozoans
microcopepods, vertical distribution, Adriatic Sea, South Adriatic Pit 1033
Protozooplankton
metazooplankton, feeding rates, prey 121
Pseudocalanus
Metridia, Stage I and II nauplii, Bering Sea 1061
Pseudocarcinus gigas
zoea, megalopa, Australia 1169
Pyrenees
Alps, plankton, virus-like particles (VLP), mountain lakes 2413
Rhizosolenia
vertical migration, nutrient cycling, open ocean 219
Rhode Island
Narragansett Bay, USA, phytoplankton, temporal patterns, taxonomic structure 145

Rhodomonas
bacteria, *Daphnia*, elemental composition, growth rate 455
River Rhine
River Waal, plankton, channel 1997
River Waal
River Rhine, plankton, channel 1997
Rotifers
Ascomorpha, *Ceratium*, feeding behaviour, macrophage 1131
invertebrate predators, hypertrophic lake, regulation of abundance 605
Keratella, *Daphnia*, chemical interference 1637
zooplankton, chlorophyll, residence time, riverine lake, plug flow tubular reactor, Neuendorfer See, Germany 2071
Santa Barbara Channel
marine snow, dinoflagellates, *Gonyaulax*, TEP, aggregates, California, USA 393
Sargasso Sea
phytoplankton, chlorophyll *a*, growth rates, primary production, seasonal variations 2223
Saronikos Gulf (Aegean Sea)
cladocerans, abundance 1313
Scyphozoa
jellyfish, *Aurelia aurita*, food regulation, population dynamics, growth, Norway 805
Sea ice
Greenland Sea, new ice formation, abundance of organisms 871
Seine Region of Freshwater Influence (ROFI)
mesozooplankton, English Channel 1145
***Sesarma* species**
first zoeal stages, identification, Panama 61
Seto Inland Sea
Japan, *Noctiluca scintillans*, biomass, production 2213
South Carolina
penaeid shrimp, recruitment, wind, tidal currents, oceanography 2333
Southern Ocean
Kerguelen Islands, copepods, seasonal abundance, grazing 1599
Prince Edward Islands, microphytoplankton, zooplankton assemblages, biogeographic zones, biomass 653
Spain
Alboran Sea, copepods, Acartiidae, resting eggs, sediments 305
Bay of Cádiz, decapod larvae, abundance patterns, hatching rhythms, larval exportation 585
Spring bloom
Phaeocystis, diatoms, Dutch coastal zone, North Sea 517
Straits of Magellan
Calanus simillimus, egg production, hatching success 2369
Strombus costatus
Strombus gigas, larval transport, across-shelf, wind stress, Bahamas 1
Strombus gigas
Strombus costatus, larval transport, across-shelf, wind stress, Bahamas 1
Subarctic
photosynthesis, temperature, models, cell size 1293
Sweden
ciliates, Heliozoa, acidification, enclosure experiments, food limitation, predation pressure 423
Switzerland
Lake Zürich, cyanobacteria, waterblooms, gas vacuoles, buoyancy 1357
Temperature
dinoflagellate, fluorescence, photoinhibition, quantum yield 1241
Noctiluca scintillans, luminescent response 1259
photosynthesis, subarctic, models, cell size 1293
Texas
Laguna Madre, *Aureoumbra lagunensis*, brown tide bloom, hypersalinity 1553
Thaliacea: Dolioletta
Doliolina, subgenera Doliolina and Dolioletta (s. gen. nov.), gonozooids 1757
Thermocyclops crassus
Cyclops vicinus, diapause, life cycle, abiotic factors, Japan 1073
Tidal coastal waters
English Channel, spatio-temporal structure, variability, heterogeneity 1387
Trochophore
larvae, physiological, viscosity, feeding 2153
UK
western English Channel, *Calanus helgolandicus*, reproduction, seasonal pattern 407
Ultraviolet radiation
plankton, shallow lakes, water mixing 1423
USA
Narragansett Bay, Rhode Island, phytoplankton, temporal patterns, taxonomic structure 145
Santa Barbara Channel, California, marine snow, dinoflagellates, *Gonyaulax*, TEP, aggregates 393
Vertical distribution
mesozooplankton, copepods, Arabian Sea 343
Micromonas pusilla, picoplankton, lytic virus, south-eastern Skagerrak, North Atlantic 2207
Neocalanus, Aleutian Islands, Bering Sea 1189
protozoans, microcopepods, Adriatic Sea, South Adriatic Pit 1033
zooplankton, frontal zone, Gulf Stream, Labrador Current 85
Vertical migration
euphausiids, shelf-break, hydroacoustic, Baja California, Mexico 1679

Rhizosolenia, nutrient cycling, open ocean 219

Virus-like particles (VLP)
plankton, mountain lakes, Alps, Pyrenees 2413

Water column mixing
phytoplankton, diversity, similarity, Lake Tegel, Berlin 1927

Western Pacific Ocean
microplankton, hydrotherms, shallow regions 1015

Yellow Sea
Korea, *Acartia bifilosa*, developmental stages 923

Zebra mussel
phytoplankton, cyanobacteria, diatoms, Hudson River (New York) 1567

Zooplankton
abundance, *Calanus*, water transport, North Atlantic Oscillation (NAO), North Sea, Gulf Stream 943
abundance, large scale shoreline configuration, meroplanktonic larvae, retention, local production 671
assemblages, multivariate techniques, coastal, Mediterranean Sea, Greece 847
biomass, gelatinous plankton, eutrophication, long-term changes, Black Sea 1377
cod abundance, herring abundance, year class strengths, North Sea 1721
diel vertical migration, modeling patterns 1463
fish invasion, predation, prey selection, community structure, Pasvik River system, Norway 243
Metridia lucens, carbon, nitrogen, biogeochemical, excretion, respiration, New Zealand 727
mortality, freshwater discharge, fjords, Arctic 1233
phytoplankton, Belgian coastal zone, winter distribution 2031
phytoplankton, chlorophyll *a*, Inhaca Island, Mozambique 2165
productivity, aspartate transcarbamylase, *Calanus helgolandicus*, enzyme activity 1205
rotifers, chlorophyll, residence time, riverine lake, plug flow tubular reactor, Neuendorfer See, Germany 2071
sampling, Continuous Plankton Recorder (CPR), U-Tow, North Atlantic 135
vertical distribution, frontal zone, Gulf Stream, Labrador Current 85

Zooplankton assemblages
microphytoplankton, biogeographic zones, biomass, Prince Edward Islands, Southern Ocean 653

Zooplankton community
Ceratium bloom, summer decline of *Daphnia* density, *Chaoborous* larvae, fishless pond, Japan 1663